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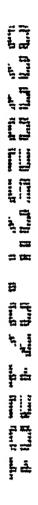
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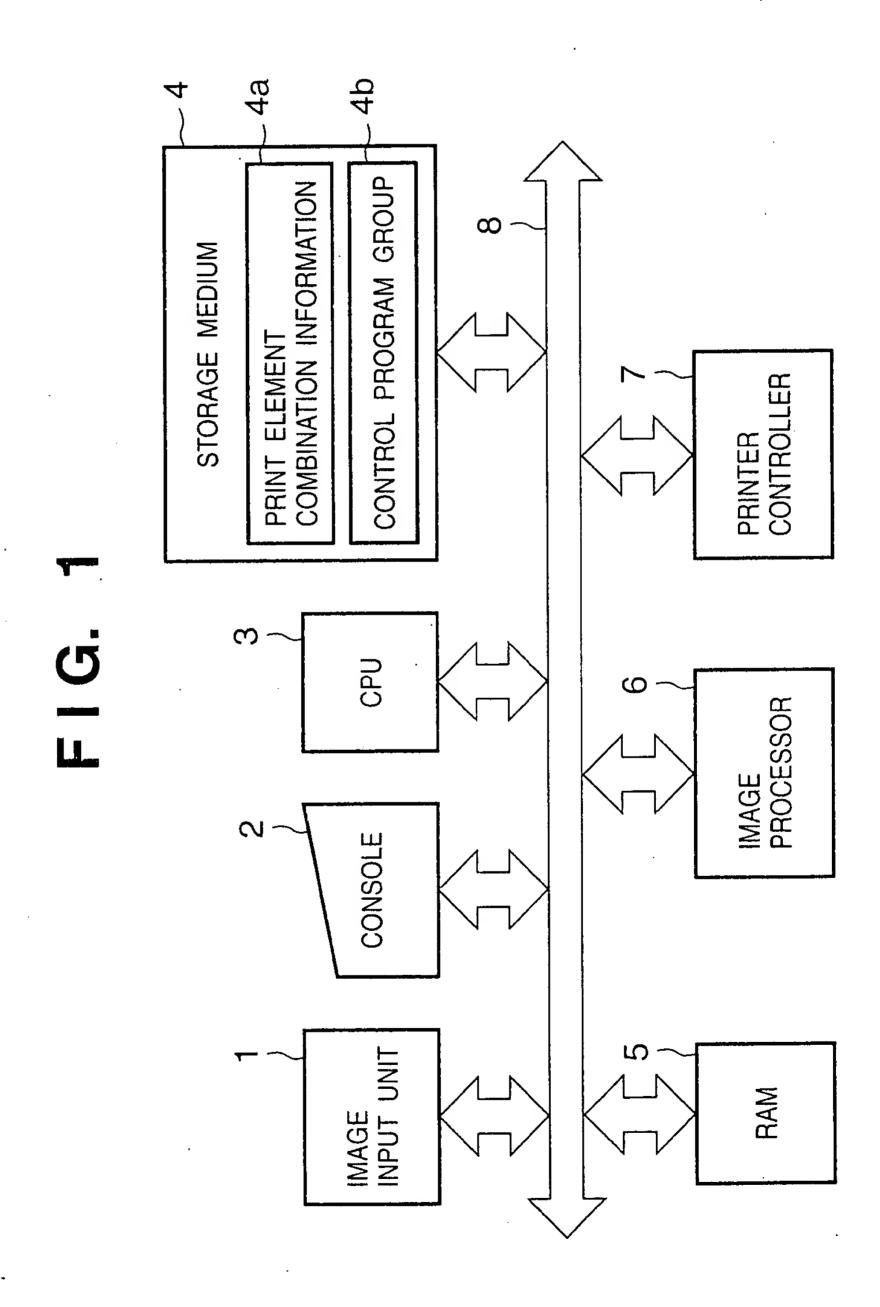
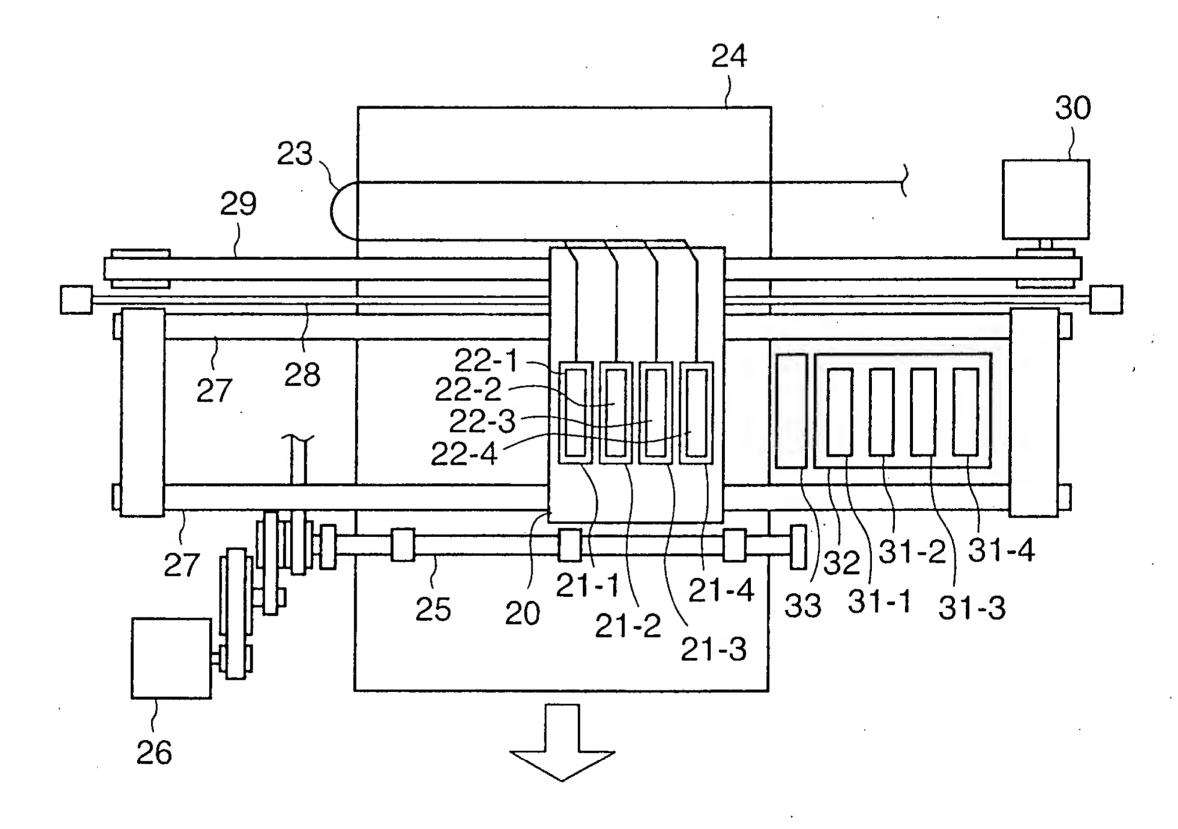


FIG. 2



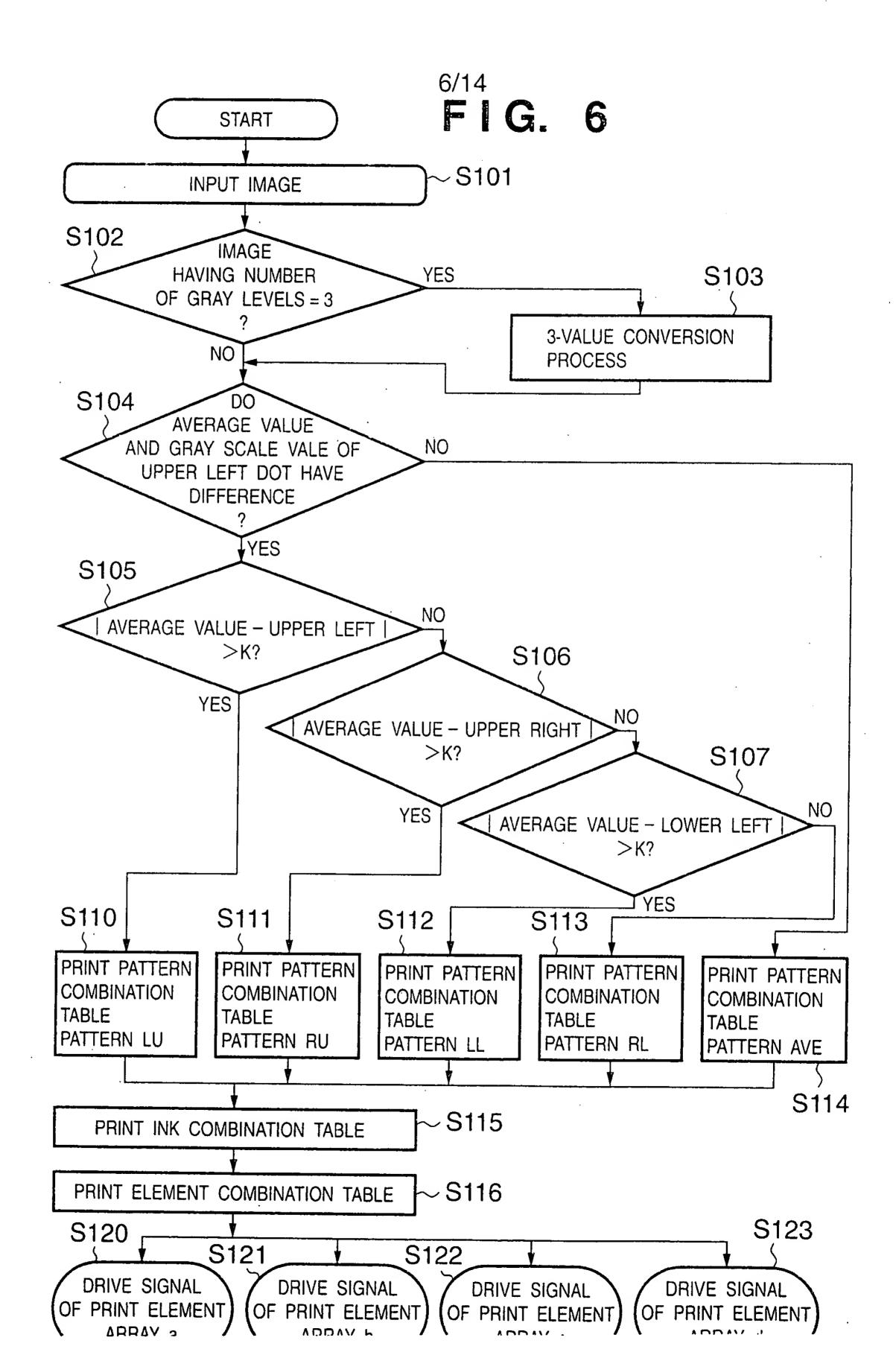
3/14 **FIG.** 3

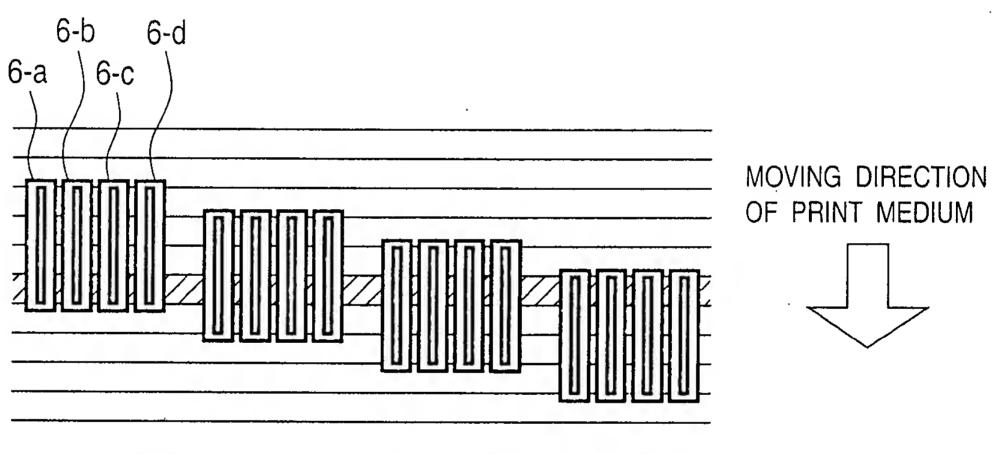
						3	ø		0				l	.···LE	FT	R	···RIG	TH
GRAY	DENSITY	No.	a-1-1	a-1-1	a-2-1	a-2-1	a-3-1	a-3-1	a-4-1	a-4-1	h-1-1	b-1-1	b-2-1	h-2-1	h-3-1			
SCALE VALUE	GRADIENT INFORMATION		L	R	L	R	L	R	L	R	L	R		R	L	R	L	R
1: 1	LU	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	LO	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
<u> </u>		3	0	0	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0
1		4	0	0	0	0	ō	0	0	Ö	0	0	0	0	0	0	0	ō
1	RU	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1		6	0	0	0	1	0	0	0	0	0	0	0	. 0	0	0	0	0
1		7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	Ó	0
1		8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
1.	LL	9	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
1	·	10	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
1		11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	· HL	13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	-0
<del>- i  </del>	1114	14	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1		15	0	0	0	0	0	0	0	0	ō	0	0	0	0	1	Ö	Ö
· 1		16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	LU .	17	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
.2		18	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
2 2		19 20	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
2	RU	21	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2	,,,	22	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
2		23	0	0	0	0	0	1	0	1	Ö	0	ō	0	0	0	0	0
2		24	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2	LL	25	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
2		26	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
2		27 28	0.	0	0	0	0	0	0	0	0	0	- 0	0	1	0	1	0
2	RL	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		30	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
2		31	0	0	0	0	0	0	Ö	0	0	0	ō	0	0	1	ō	1
2		32	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
2	AV	33	1	0	0	0	0	0	0	0	0	1	0	0	0	0.	0	0
2		34	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
2		35	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
2		37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		38	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
2		39	0	Ö	1	Ö	0	0	0	0	0	0	ő	0	0	1	0	0
2		40	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3	LU	41	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
3		42	0	0	$\frac{1}{0}$	0	1	0	0	0	0	0	0	1	0	0	0	0
3		43	$\frac{1}{1}$	0	0	0	0	0	1	0	0	0	0	0	0	0.	0	0
3	RU	45	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0
3	7.0	46	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0
3		47	0	0	0	0	0	1	0	1	Ö	0	0	0	1	0	0	0
3		48	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0
3	LL	49	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0
3		50	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0
3		51	0	0	0	0	0	1	0	0	0	0	0	0	1	0.	1	0
3	RL	52	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
3	I IL	54	0	0	<del></del>	0	0	0	0	0	0	0	0	0	0	1	0	0
3		55	0	0	0	0	<del>     </del>	0	0	<del>     </del>	0	0	0	0	0	<del></del>	0	1
3		56	0	0	0	0	0.	0	1	0	ŏ	1	0	0	0	0	0	1
3	AVE	41	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
3		42	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0
3		43	0	0	0	0	0	0	0	1	n	n	7	$\cap$	1	<u> </u>	7	7

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GRAY	DENSITY	No.	a-1-1	a-1-1	a-2-1	a-2-1	a-3-1	a-3-1	a-4-1	a-4-1	b-1-1	b-1-1	b-2-1	b-2-1	b-3-1	b-3-1	b-4-1	b-4-1
SCALE	GRADIENT		١,	R	1	R	L	R	L	R	L	R	L	R	L	R	L	R
VALUE	INFORMATION			''														
4	LU	45	1	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0
4		46	0	0	1	0	1	0	1	0	0	0	0	1	0	0	0	0
4		47	1	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0
4		48	1	0	. 1	0	0	0	1 1	0	0	0	0	0	0	0	0	
4	RU	49	0	1	. 0	1	0	1	0	0	1	0	0	0_	0	0	0	0
4		50	0	0	0	1	0	1	0	1	0_	0_	1	0_	0	0	0	0
4		51	0	1	0_	0	0	1	0	1	0	0	0	0_	<u> </u>	0	0	0
4		52	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
4	LL	53	0	1	0	0	0	0	0	0	1 1	0	1 1	0_	-	0	1 1	0
4		54	0	0	0	1 1	0	0	0	0	0_	0	<u> </u>	0	+	0		0
4		55	0	0	0_	0	0	1	0	0	1-1-	0	0	0	0	0		0
4		56	0	0	0_	0	0	0	0_	1 - 1	1	0	-	0	0	1 - 1	-	0
4	RL	57.	1 1	Û	0	0	0	0	0	0.	0	<del>                                     </del>	0	1	0	1 1	0	1 1
4		58	0	0	1	0	0	0	0	0	0	0		<u> </u>	0		0	+
4		59	0	0	0	0	1 1	0	0	0	0	1 1	0	0	0	10	0	+
4		60	0	0	0	0	0	0	1	0	0	1 1	0	0	1-1	0	0	0
4	AVE	61	1 1	0	0	<u> </u>	0	0	0	0	0	0	0	1	0	1 0	1	0
4		62	0	0	1	0	0	1 - 1	0_	0	<del></del>	0	1-1	0	0	1 1	10	10
4		63	0	0	0	0	-	0	0	0	0	0	0	0	1	<del>                                     </del>	0	1-1-1
4		64	0		0_	0	0	0_	0	<del> </del>			-	<del>                                     </del>	<del>                                   </del>	<del>                                     </del>	1	<del>                                     </del>
<u> </u>		CE	-			<u> </u>	-	0	0	1	0	1	0	0	0	0	0	0
5	LU	65	<u> </u>	0		0		10	1	0	0	<del>                                     </del>	0	1 1	1 0	l ŏ	1 0	ŏ
5		66	0		<del>                                     </del>	0	1 1	0	1 1	0	0	0	0	0	0	1	1 0	1 0
5		67		0	0	0	0	1	1	0	0	0	0	0	1 0	0	1 0	11
5	500	68	1 -	0	0	1	0	1		10	1	0	0	0	1 0	0	1 0	0
5	RU	69 70	0	0	0	<del>                                     </del>	0	+ +	0	1	0	0	1	10	0	10	10	<u> </u>
5	<del></del>	71	0	1	1 1	0	0	1 1	0	1 1	1 0	1 0	0	0	1 1	0	0	0
5_		72	0	1	0	1	1	0	0	0	1 0	Ö	0	T O	0	0	1	0
5	LL	73	0	1 1	0	0	0	0	0	0	1 1	10	1	0	<del>1 1</del>	10	0	1
5	LL.	74	0	0	10	1	0	1 0	0	0	0	1	1	0	1 1	0	11	0
5	· · · · · · · · · · · · · · · · · · ·	75	0	0	0	0	1 0	1 1	1 0	0	1	1 <u>0</u>	0	1	1	0	1	0
5	!	76	10	0	0	0	0	0	1 0	1	1 1	1 0	1	0	0	1	1	0
5	RL	77	0	0	10	0	0	0	0	0	10	1 1	0	1	0	1	1	0
5	nL nL	78	1 0	0	1 1	1 0	1 0	0	1 0	0	1	0	0	1	0	1	0	1
5		79	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1
5	<del> </del>	80	0	0	0	0	T o	0	1 1	0	0	1 1	0	1	1	0	0	1
5	AVE	81	1 1	T ŏ	0	1	1	0	0	0	0	1 1	0	0	1	0	0	0
5		82	0	0	Ť	10	0	1 1	1	0	0	0	0	1	0	0	1	0
5		83	1 1	1 0	0	1.0	1	0	0	1	0	0	1	0	0	1	0	0
5		84	10	1 1	1	1 0	Ö	0	1	0	10	0	0	0	1	0	0	1
<u> </u>	<del> </del>	1	╅	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	Ť	<del> </del>	<del>                                     </del>	<del>                                     </del>	1	<del> </del>	1	1		1		
6	LL	85 -	1	0	1	0	1	0	0	1	0	1	1	0	0	0	0	0
6	1	86	_1	1	1	0	1	0	1	0	0	0	0	1	1	0	0	0
6	<del> </del>	87	1	0	0	1	1	0	1	0	0	0	0	0	0	1	1	0
6		88	1	1 0	1	0	0	1	1	0	1	0	0	0	0	0	0	1
6	RU	89	0	1	0	1	0	1	1	0	1	1	0	0	0	0	0	0
6		90	0	0	0	1	0	1	0	1	0	0	1	1	0	0	0	0
6		91	0	1	1	0	0	1	0	1	0	0	0	0	1	1	0	0
6		92	0	1	0	1	1	0	0	1	0	0	0	0	0	0	1	1
6	LL	93	0	1	1	0	0	0	0	0	1	0	1	0	1	0	0	1
6		94	0	0	0	1	1	0	0	0	0_	1	1	0	1	0	1	0
6	1	95	0	0	0	0	0	1	1	0	1	0	0	1	1	0	1	0
6	<del>                                     </del>	96	1	0	0	0	0	0	0	1	1	0	1	0	0	1	1	0
6	RL.	97	1	1	0	0	0	0	. 0	0	0	1	0	1	0	1	1	0
6	1	98	0	0	1	1	0	0	0	0	1	0	0	1	0	1	0	1
6	<del> </del>	99	0	0	0	0	1	1	0	0	0	1	1	0	0	1	0	1
6	1	100	0	0	0	0	0	0	1	1	0	1	0	1 1	1	0	0	1
6	AVE	101	1	0	0	1	1	0	0	0	0	1	0	0	1	0	0	1
6	1	102	0	0	1.	0	0	1	1	0	0	1	0	1	0	0	1	0
6	<del>1</del>	103		0	0	0	1	0	0	1	1 1	0	1 1	0	0	1 1	10	101
<del></del>	<del></del>		_3	•	-	•	=											

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GRAY	DENSITY	No.	a-1-1	a-1-1	a-2-1	a-2-1	a-3-1	a-3-1	a-4-1	a-4-1	b-1-1	b-1-1	b-2-1	b-2-1	b-3-1	b-3-1	b-4-1	b-4-
SCALE VALUE	GRADIENT INFORMATION		L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R
7	LU	105	1	0	1	0	1	0	1	1	0	1	1	0	0	0	0	0
		106	1	1	1	0	1	0	1	0	0	0	0	1	1	0	0	0
7		107	1	0	1	1	1	0	1	0	0	0	0	0	0	1	1	0
7		108	1	0	1	0	1	1	1	0	1	0	0	0	0	0	0	1
7	RU	109	0	1	0_	1	0	1	1	1	1	1	0	0	0	0	0	0
7		110	1	1	0	1	0	1	0	1	0	0	1	1	0	0	0	0
7		111	0	1	1	1	0	1	0_	1	0	0	0	0	1	1	0	0
7	·	112	0	1	0	1	1	1_	0	1	0	0	0	0	0	0	1	1
7	LL	113	0	1	1	0	0	0	0	0	1	0	1	0	1	0.	1 1	1
7		114	0	0	0	1	1	0	0	0	1	1	1	0	1	0	1	0
7		115	0	0	0	0	0	1	1	0	1	0	1	1	1	0	1	0
7		116	1	0	0	0	0	0	0	1	1	0	1	0	1	1	1	0
7	RL	117	1	1	0	0	0	0	0	0	0	1 1	0	1	0	1	1	1
7		118	0	0	1	1	0	0	0	0	1	1	0	1	0	1	0	1_1_
7		119	0	0	0	0	1	1 1	0	0	0	1	1	1	0	1	0	1
7		120	0	0	0	0	0	0	1	1	0	1	0	1	1	0	0	1
7	AVE	121	1	0	0	1	1	0	0	1	0	1	0	0	1	1	0	1
7		122	0	1	1	0	0	1	1	0	0	1	0	1	0	0	1	0
7		123	1	0	. 0	1	1	0	0	1	1	0	1	0	0	1	0	0
7		124	0	1	1	0	0	1	1	0	0	1	0	0	1	0	0	1
8	LU	125	1	0	1	0	1	0	1	1	0	1	1	0	1	0	0	0
8		126	1	1	1	0	1	0	1	0	0	0	0	1	1	0	1	0
8		127	1	0	1	1	1	0	1	0	1	0	0	0	0	1	0	0
8		128	1	0	1	0	1	1	1	0	1	0	1	0	0	0	0	1
8	RU	129	0	1	0	1	0	1	1	1	1	1	0	1	0	0	0	0
8		130	1	1	0	1	0	1	0	1	0	0	1	1	0	1	0	0
8		131	0	1	1	1	0	1	0	1	0	0	0	0	1	1	0	1
8		132	0	1	0	1	1	1	0	1	0	1	0	0	0	0	1	1
8	LL	133	0	1	1	0	1	0	0	0	1	0	1	0	1	0	1	1
8		134	0	0	0	1	1	0	1	0	1	1	1	0	1	0	1	0
8		135	1	0	0	0	0	1	1	0	1	0	1	1	1	0	1	0
8.		136	1	0	1	0	0	0	0	1	1	0	1	0	1	1	1	0
8	RL	137	1	1	0	1	0	0	0	0	0	1	0	1	0	1	1	1
8		138	0	0	1	1	0	1	.0	0	1	1	0	1	0	1	0	1
8		139	0	0	0	0	1	1	0	1	0	1	1	1	0	1	0	1
8		140	0	1	0	0	0	0	1	1	0	1	0	1	1	1	0	1
8	AVE	141	1	0	0	_1	1	0	0	1	0	1	1	0	1	0	0	1
8		142	0	_1	1	0	0	1	1	0	1	1	0	1	0	0	1	0
8		143	1	0	0	_1	_1	0	0	1	1	0	1	0	0	1	0	1
8	-	144	0	1	1	0	0	1	1	0	0	1	0	0	1	0	1	1
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	<u> </u>					.										·		
			<b></b>		<del></del>													
										<del></del>								-
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FOURTH PASS THIRD PASS SECOND PASS FIRST PASS

FIG. 8

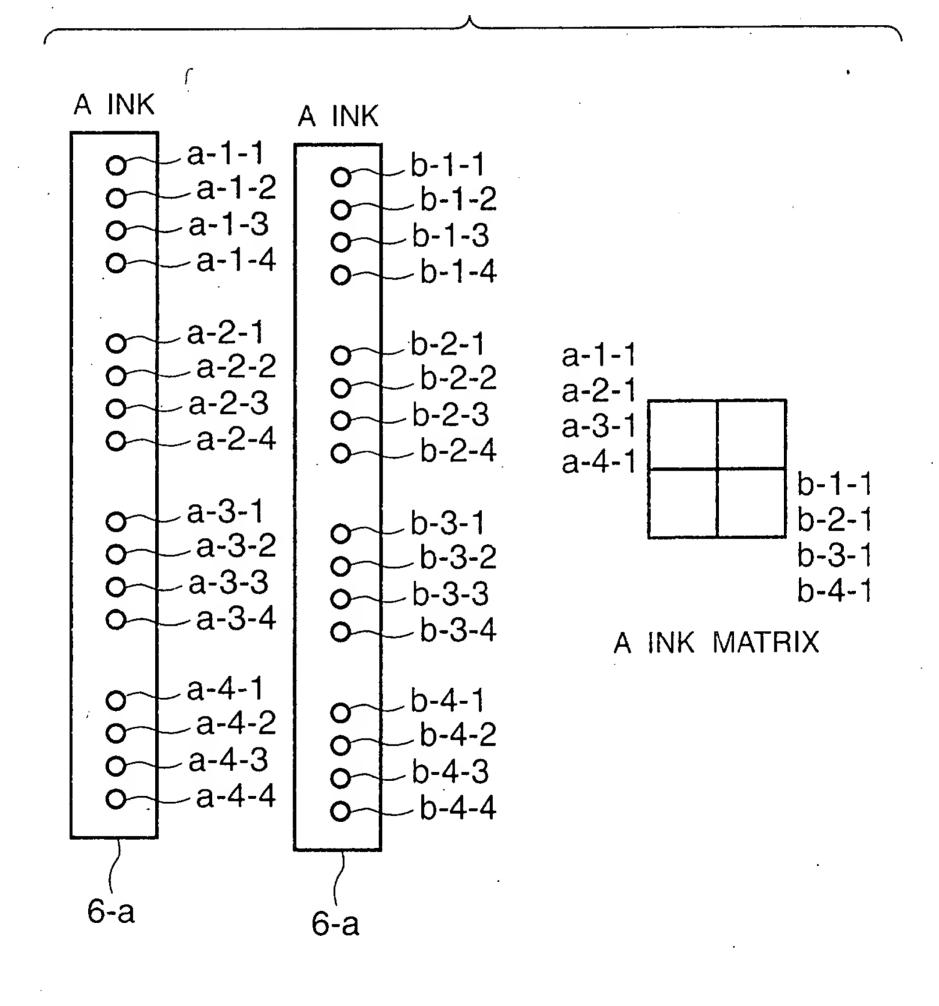
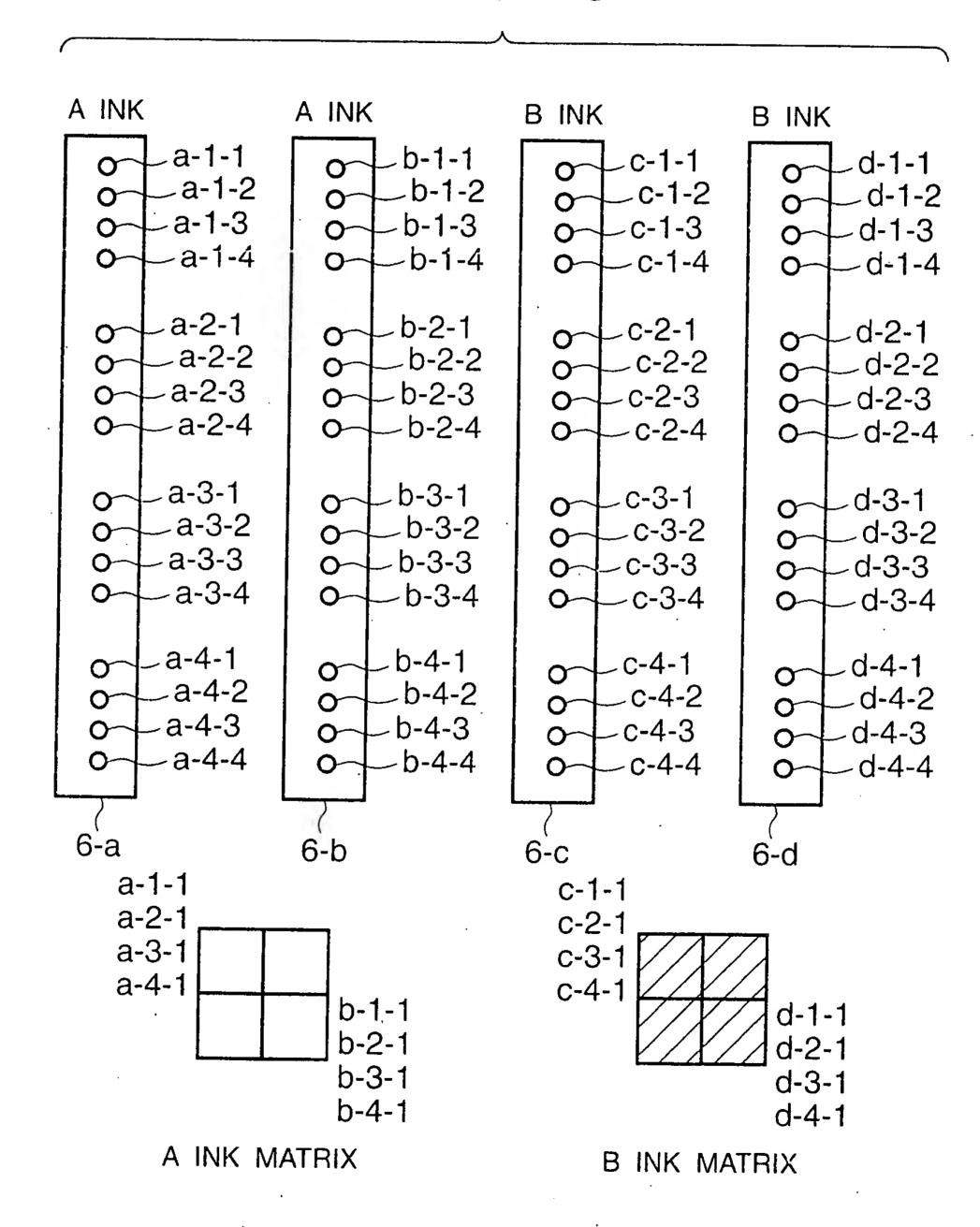
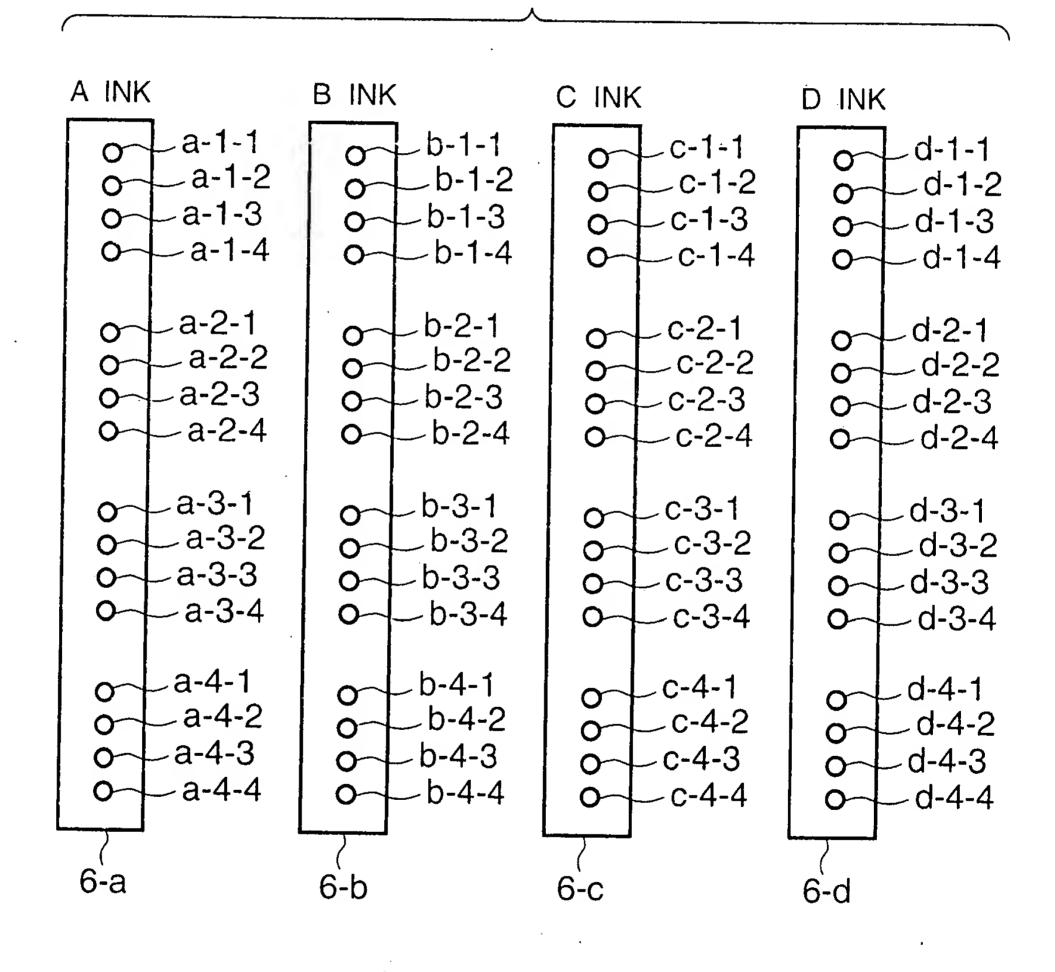
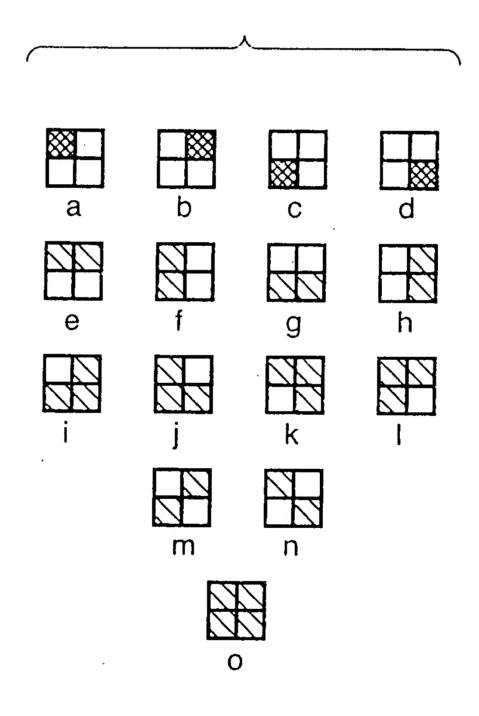


FIG. 9







12/14 F I G. 12

	PATTERN 1		1	l 	PATTI	ERN 2		 	PATTE	ERN 3	t L	1
·GRAY LEVEL	UPPER LEFT	UPPER RIGHT	LOWER LEFT	LOWER RIGHT	UPPER LEFT	UPPER RIGHT	LOWER LEFT	LOWER RIGHT	UPPER LEFT	UPPER RIGHT		LOWER RIGHT
0	0	0	0	0	0	0	0	0	0	0	0	. 0
1	1	0	0	0	0	1	0	0	0	0	1	0
2	2	0	0	0	0	2	0	0	0	0	2	0
3	3	0.	0	0	0	3	0	0	0	0	3	0
4	4	0	0	0	0	4	0	0	0	0	4	0
5	5	0	0	0	0	5	0	0	0	0	5	0
6	6	0	0	0	0	6	0	0	0	0	6	0
7	7	0	0	0	0	7	0	0	0	0	; 7	0
8	8	0	0	0	0	8	0	0	0	0	8	0
9	8	1	0	0	1	8	1	0	0	0	8	1
10	8	1	0	0	1	8	1	0	1	0	8	1
11	. 8	2	1	0	2	8	1	0	1	0	8	2
12	8	2	2	0	2	8	2	0	2	0	. 8	2
13	8	2	2	1	2 .	8	2	1	2	1	8	2
14 .	8	. 2	2	2	2	8	2	2	2	2	8	2
15	8	3	3	2	3	8	3	2	3	2	8	3
		 	l !				I		•		 	 
		 	 			-	 				 	
	PATTE	RN 4							PATTE	RN 5		
GRAY LEVEL	UPPER LEFT	UPPER RIGHT	LOWER LEFT	LOWER RIGHT	UPPER LEFT	UPPER RIGHT	LOWER LEFT	LOWER RIGHT	UPPER LEFT	UPPER RIGHT	LOWER LEFT	LOWER RIGHT
0	0	0	0	0	<u> </u>				0	0	0	0
1	0	0	0	1					1	0	0	0
2	0	0	0	2	 				1	0	0	1
3	0	0	0	3	1				1	., 1	0	1
4	0	0	0	4	l I				1	1	1	1
5	0	0	0	5	<u> </u>		1		2	1	1	1
6	0	0	0	6	1		1		2	1	1	2
7	0	0	0 ;	7	. !	 			2	2	1	2
8	0 ;	0	0	8					2	2	2	2
9	0	0	1 ;	8	<del>-</del>		1		3	2	2	2
10	0	1	1	8	1	1	1		3	2	2	3
11	0	1	2	8	!				3	3	2	3
12	0	2	2	8			1		3	3	3	3
13	· 1	2	2	8		1	!		4	3	3	3
14	2	2	2	8	<del></del>		· !		4	3	3	4
417	^ 1	^			<del></del>			-	. :	- :		

FIG. 13

GRAY	SCALE VALUE	A INK	B INK	C INK	D INK
	0	0	0	0	0
	1	1	0	0	0
		~			
······································	2	2	0	0	0
	2 ·	0	1	0	0
					·
	3	3	0	0	0
	3	1	1	0	0
<del>-</del>					•
	4	4	0	0	0
	4	2	1	0	0
· · · · · · · · · · · · · · · · · · ·	4	0	2	0	0
<del></del>	4	0	0	1	0
	5	3	1	0	0
	5	1	2	0	0
<u></u> .	5	1	0	1	0
			·		
	6	2	2	0	0
	6	0	3	0	0
	6	2	0	1	0
	6	0	. 1	1	0
	7	1	3	0	0
	7	1 .	1	1	0
<del>-</del>	8	0	4	0	0
·*· · · · · · · · · · · · · · · · · ·	8	0	0	2	0
	8	0	0	0	1

FIG. 14

